(19) JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 10214062 A

(43) Date of publication of application: 11.08.98

(51) Int. Cl G09G 3/36
G02F 1/133
G02F 1/133

(21) Application number: 09015187

(22) Date of filing: 29.01.97

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(54) LIQUID CRYSTAL DISPLAY ERASING CIRCUIT FOR POWER-OFF TIME

(57) Abstract:

PROBLEM TO BE SOLVED: To erase a liquid crystal display even at power-OFF time even unless a shift register in a gate bus driving circuit has a reset function.

SOLUTION: A power source holding circuit 10 holds the electric power of an operating power source supplied to the gate bus driving circuit for a specific time even after the power source is turned off and supplies source voltages V1b and V2b (V1b>V2b) to the gate bus driving circuit 7. When a shift pulse generator 23 and an H-level voltage generator 24 are supplied with the operating electric power from the power source holding circuit 10 and the output of a voltage drop detecting circuit 14, the former supplies a shift pulse SP to a shift register 8 and the latter supplies data Vout of H level corresponding to logic '1'. Consequently, the operation of the gate bus driving circuit 7 is held for the specific time even after the power source is turned off and during a prescribed period, FETs of respective pixels are turned on to discharge accumulated electric charges.